

SECTION VI
Parts List

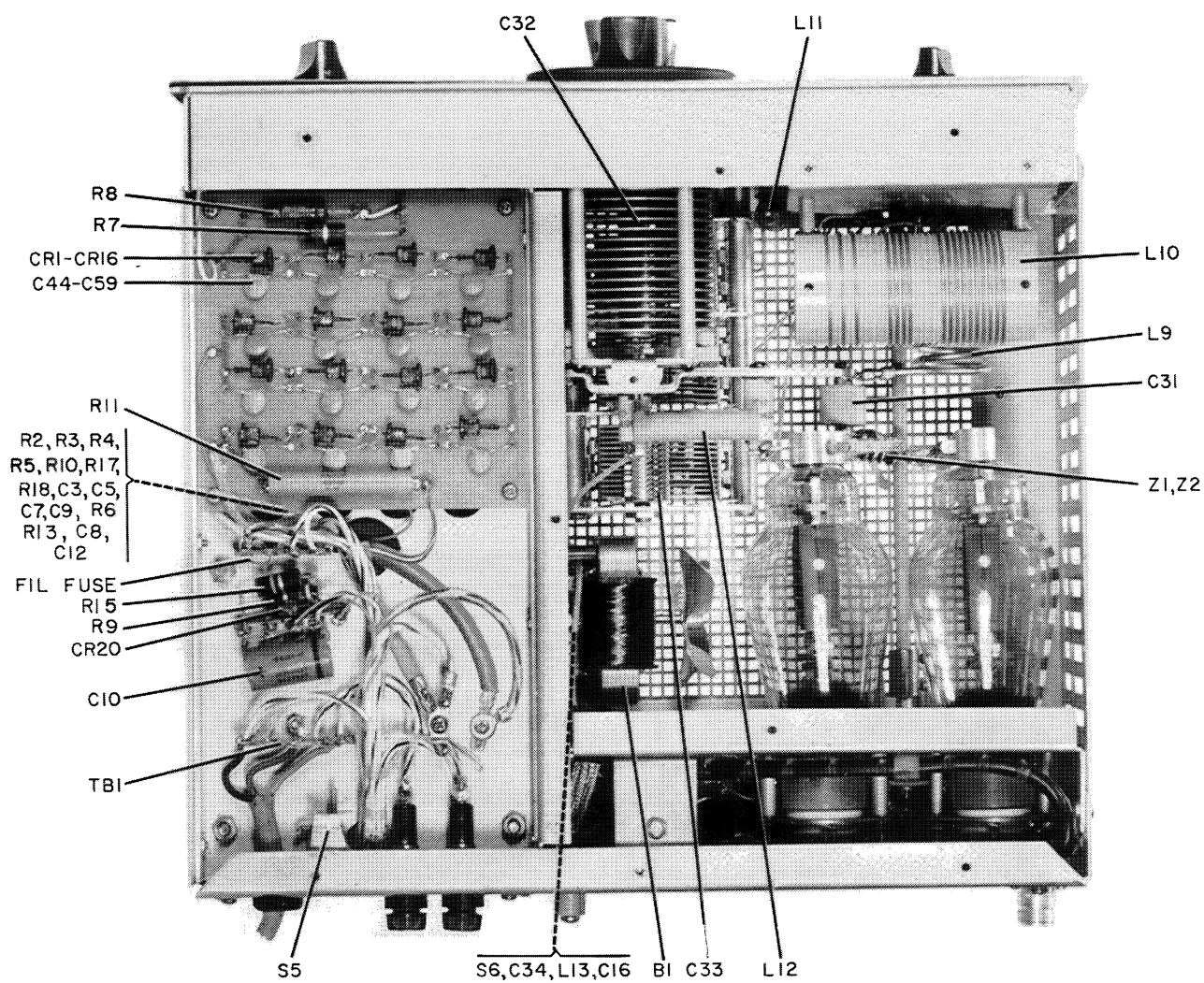


Figure 6-1. R-F and Power Supply Compartments, Parts Location

SECTION VI

PARTS LIST

30L-1 R-F Linear Amplifier

ITEM	DESCRIPTION	COLLINS PART NUMBER	ITEM	DESCRIPTION	COLLINS PART NUMBER
LINEAR AMPLIFIER		522-2375-00	F1	FUSE, CARTRIDGE: 8 amp, 250 v dc; ferrule type terminal	264-4110-00
B1	FAN: 115 v ac, 60 cps, single phase	547-3702-00	F2	FUSE, CARTRIDGE: same as F1	264-4110-00
C1	CAPACITOR, FIXED, CERAMIC: 10,000 uuf +100% -20%, 500 v dc	913-3013-00	J1	JACK, PHONO-TYPE: accommodates 1/8 in. plug; ceramic insulation	360-0088-00
C2	CAPACITOR, FIXED, CERAMIC: same as C1	913-3013-00	J2	JACK, PHONO-TYPE: same as J1	360-0088-00
C3	CAPACITOR, FIXED, ELECTROLYTIC: 100 uf -10% +100%, 450 v dc	183-1567-00	J3	JACK, PHONO-TYPE: same as J1	360-0088-00
C4	CAPACITOR, FIXED, CERAMIC: 10,000 uuf ±20%, 1000 v dc	913-3922-00	J4	CONNECTOR, RF TYPE N: UG-58A/U	357-9003-00
C5	CAPACITOR, FIXED, ELECTROLYTIC: same as C3	183-1567-00	K1	RELAY: dpdt; 2 amps, coil resistance, 10,000 ohms	970-2140-00
C6	CAPACITOR, FIXED, CERAMIC: same as C4	913-3922-00	L1	NOT USED	
C7	CAPACITOR, FIXED, ELECTROLYTIC: same as C3	183-1567-00	L2	NOT USED	
C8	CAPACITOR, FIXED, ELECTROLYTIC: same as C3	183-1567-00	L3	COIL, RADIO FREQUENCY: single layer wound, solenoid, #21 or #22 AWG copper wire 39.0 uh, 0.80 ohms dc	240-0189-00
C9	CAPACITOR, FIXED, ELECTROLYTIC: same as C3	183-1567-00	L4	Part of Z1	547-3654-002
C10	CAPACITOR, FIXED, ELECTROLYTIC: 10 uf -10%, +100%, 150 v dc	183-1568-00	L5	Part of Z2	547-3654-002
C11	NOT USED		L6	NOT USED	
C12	CAPACITOR, FIXED, ELECTROLYTIC: same as C3	183-1567-00	L7	NOT USED	
C13	CAPACITOR, FIXED, MICA: 47 uuf ±5%, 500 v dc	912-2792-00	L8	COIL, RADIO FREQUENCY: single layer wound, no. 14 AWG, formvar insulation; 7.5 uh	240-1244-00
C14	CAPACITOR, FIXED, MICA: 100 uuf ±5%, 500 v dc	912-2816-00	L9	COIL, RADIO FREQUENCY: single layer wound; 6.5 turns no. 8 AWG	547-3718-002
C15	CAPACITOR, FIXED, CERAMIC: same as C1	913-3013-00	L10	COIL, RADIO FREQUENCY: single layer wound; 17 turns no. 14 AWG	547-3708-003
C16	CAPACITOR, FIXED, CERAMIC: 0.005 uf ±20%, 3000 v dc	913-4329-00	L11	COIL, RADIO FREQUENCY: 4 sections; 2.5 mh, 35 to 50 ohms, 0.125 amp	240-0059-00
C17	CAPACITOR, FIXED, CERAMIC: same as C1	913-3013-00	L12	COIL, RADIO FREQUENCY: single layer wound, 44 uh at 2.5 mc inductance, 3.54 ohm dc resistance, 1.6 amps current capacity	240-0807-00
C18	CAPACITOR, VARIABLE, CERAMIC: 8.0 uuf min 75.0 uuf max, 350 v dc	917-1075-00	L13	COIL, RADIO FREQUENCY: single layer wound, 2.2 uh, 1980 ma current; 0.20 ohms	240-0174-00
C19	CAPACITOR, FIXED, MICA: 270 uuf ±5%, 500 v dc	912-2846-00	L14	COIL, RADIO FREQUENCY: single layer wound, 4 turns	547-3659-003
C20	CAPACITOR, FIXED, CERAMIC: same as C1	913-3013-00	L15	COIL, RADIO FREQUENCY: single layer wound, 6 turns no. 22 AWG	547-3660-003
C21	CAPACITOR, FIXED, CERAMIC: same as C1	913-3013-00	L16	COIL, RADIO FREQUENCY: single layer wound, 8 turns no. 22 AWG	547-3661-003
C22	CAPACITOR, FIXED, MICA: 220 uuf ±5%, 500 v dc	912-2840-00	L17	COIL, RADIO FREQUENCY: single layer wound, 14 turns no. 22 AWG	547-3662-003
C23	CAPACITOR, FIXED, MICA: same as C22	912-2840-00	L18	COIL, RADIO FREQUENCY: single layer wound, 6 turns no. 22 AWG	547-3663-003
C24	CAPACITOR, FIXED, MICA: same as C22	912-2840-00	L19	COIL, RADIO FREQUENCY: 1.5 uh	240-0173-00
C25	CAPACITOR, FIXED, MICA: same as C22	912-2840-00	M1	METER, ELECTRICAL: 200-0-500 ua meter range, 190 ohms, ±2%, 2-1/2 in. sq	458-0592-00
C26 thru C30	CAPACITOR, FIXED, CERAMIC: same as C1	913-3013-00	O1	KNOB-METER	544-0779-004
C31	CAPACITOR, FIXED, CERAMIC: 1000 uuf ±20%, 5000 v dc	913-0101-00	O2	KNOB-BAND	544-0779-004
C32	CAPACITOR, VARIABLE AIR: 15 uuf min 353.0 uuf max	920-0066-00	O3	KNOB, TUNING	547-3656-002
C33	CAPACITOR, VARIABLE AIR: 14 uuf min 432 uuf max	921-0018-00	O4	KNOB, LOADING	547-3656-002
C34	CAPACITOR, FIXED, CERAMIC: same as C16	913-4329-00	R1	RESISTOR, FIXED, COMPOSITION: 4700 ohms ±10%, 1/2 w	745-1380-00
C35	CAPACITOR, FIXED, CERAMIC: feedthrough type, 1000 uuf +80% -20%, 500 v dc	913-1292-00	R2	RESISTOR, FIXED, WIRE WOUND: 25,000 ohms ±5%, 26 w	746-9155-00
C36 thru C43	CAPACITOR, FIXED, CERAMIC: same as C35	913-1292-00	R3	RESISTOR, FIXED, WIRE WOUND: same as R2	746-9155-00
C44	CAPACITOR, FIXED, CERAMIC: 1000 uuf +100% -20%, 500 v dc	913-3009-00	R4	RESISTOR, FIXED, WIRE WOUND: same as R2	746-9155-00
C45 thru C59	CAPACITOR, FIXED, CERAMIC: same as C44	913-3009-00	R5	RESISTOR, FIXED, WIRE WOUND: same as R2	746-9155-00
C60	CAPACITOR, FIXED, MICA: 82 uuf ±5%, 500 v dc	912-2810-00	R6	RESISTOR, FIXED, WIRE WOUND: same as R2	746-9155-00
C62	CAPACITOR, FIXED, MICA: 510 uuf ±5%, 300 v dc	912-2867-00	R7	RESISTOR, FIXED, COMPOSITION: 1500 ohms ±10%, 2 w	745-5659-00
C63	CAPACITOR, FIXED, MICA: same as C22	912-2840-00	R8	RESISTOR, FIXED, WIRE WOUND: 1.0 ohms ±1%, 5 w	747-9716-00
C64	CAPACITOR, FIXED, MICA: same as C22	912-2840-00	R9	RESISTOR, FIXED, COMPOSITION: 47 ohms ±10%, 2 w	745-5596-00
C65	CAPACITOR, FIXED, MICA: 180 uuf ±5%, 500 v dc	912-2834-00	R10	RESISTOR, FIXED, FILM: 1,960 ohms 1%, 1/4 w	705-7110-00
C66	CAPACITOR, FIXED, MICA: 330 uuf ±5%, 500 v dc	912-2852-00	R11	RESISTOR, FIXED, FILM: 4,000,000 ohms ±1%, 2 w	705-4260-00
C67, C68	CAPACITOR, FIXED, MICA: same as C22	912-2840-00	R12	RESISTOR, FIXED, WIRE WOUND: 2,000 ohms ±10%, 7 w	710-9010-00
C69	CAPACITOR, FIXED, MICA: 150 uuf ±5%, 500 v dc	912-2828-00	R13	RESISTOR, FIXED, WIRE WOUND: same as R2	746-9155-00
C70	CAPACITOR, FIXED, MICA: same as C65	912-2834-00	R14	NOT USED	
C71	CAPACITOR, FIXED, CERAMIC: same as C35	913-1292-00	R15	RESISTOR, FIXED, COMPOSITION: 10,000 ohms ±10%, 2 w	745-5694-00
C72	Same as C13	912-2792-00	R16	RESISTOR, VARIABLE, COMPOSITION: 5,000 ohms ±20%, 0.3 w	376-0205-00
C73	Same as C14	912-2816-00	R17	RESISTOR, FIXED, COMPOSITION: 10 ohms ±10%, 2 w	745-5568-00
C74	Same as C1	913-3013-00	R18	RESISTOR, FIXED, COMPOSITION: same as R17	745-5568-00
C75	CAPACITOR, FIXED, MICA: same as C69	912-2828-00	R19	RESISTOR, FIXED, COMPOSITION: 39,000 ohms ±10%, 1/2 w	745-1419-00
C76	CAPACITOR, FIXED, MICA: 100 uuf ±5%, 500 v dc	912-2816-00			
CR1	DIODE: silicon; type 1N1492	353-1661-00			
CR2	DIODE: same as CR1	353-1661-00			
CR16					
CR17	DIODE: silicon; type 1N252	353-2940-00			
CR18	DIODE: same as CR17	353-2940-00			
CR19	DIODE: 1N458	353-0205-00			
CR20	DIODE: silicon; type 1N540	353-1546-00			

SECTION VI
Parts List

30L-1 R-F Linear Amplifier

ITEM	DESCRIPTION	COLLINS PART NUMBER	ITEM	DESCRIPTION	COLLINS PART NUMBER
R20	RESISTOR, FIXED, COMPOSITION: same as R19	745-1419-00	S5	INTERLOCK ASSEMBLY: copper, silver plated; 11/16 in. by 3/4 in. by 1.312 in.	547-3632-002
R21	RESISTOR, FIXED, COMPOSITION: 47 ohms ±10%, 1 w	745-3296-00	S6	Same as S5	547-3632-002
R22	RESISTOR, FIXED, COMPOSITION: same as R21	745-3296-00	S7	Same as S5	547-3632-002
R23	RESISTOR, FIXED, COMPOSITION: same as R21	745-3296-00	T1	POWER TRANSFORMER:	662-0010-00
R24	RESISTOR, FIXED, COMPOSITION: same as R21	745-3296-00	V1	ELECTRON TUBE: triode; type 811A	256-0053-00
R25	Part of Z1	745-5610-00	V2 thru V4	ELECTRON TUBE: same as V1	256-0053-00
R26	Part of Z2	745-5610-00	XF1	FUSE HOLDER: 15 amps-250 v	265-1019-00
R27	NOT USED		XF2	FUSE HOLDER: same as XF1	265-1019-00
R28	RESISTOR, FIXED, COMPOSITION: 39 ohms, ±10%, 1/2 w	745-1293-00	XV1	SOCKET, ELECTRON TUBE: 5 amps 2000 v rms	220-1451-00
S1	SWITCH, ROTARY: 2 circuit (2 pole), 18 position, 1 section	259-1385-00	XV2 thru XV4	SOCKET, ELECTRON TUBE: same as XV1	220-1451-00
S2	SWITCH, ROCKER: dpst; 20 amps, 125 v ac, 10 amps, 250 v ac	266-6020-00	Z1	SUPPRESSOR, PARASITIC: 4 turns no. 16 AWG wire, 100 ohms, 2 w resistor	547-3654-002
S3	SWITCH, ROTARY: 2 circuit (2 pole), 3 position, 1 section	259-1368-00	Z2	SUPPRESSOR, PARASITIC: same as Z1	547-3654-002
S4	SWITCH, ROTARY: 3 circuit (3 pole), 5 position, 1 section	259-1386-00			

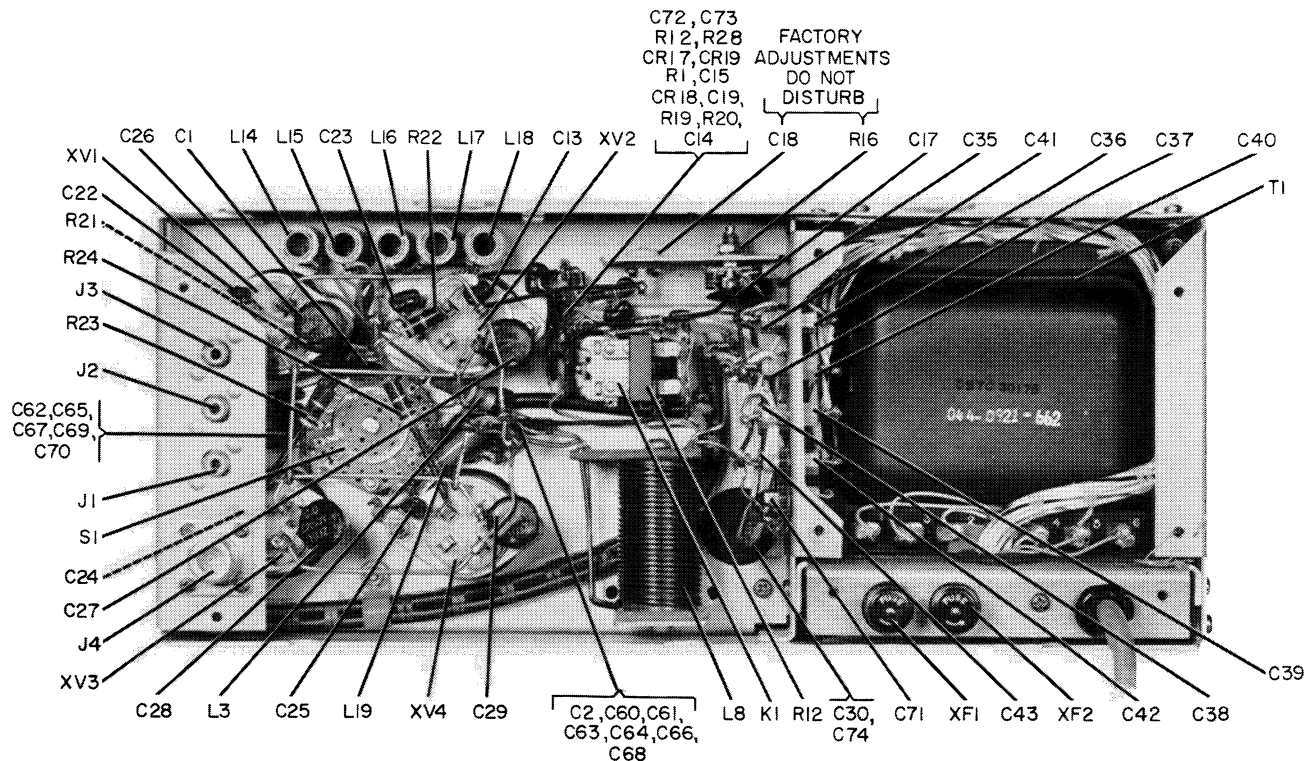


Figure 6-2. Input Circuitry, Parts Location